AN   1998:256520   CAPLUS
DN   128:290997
TI   Evaluation of different microsatellite motifs for analyzing genetic
        relationships in cultivated sunflower (Helianthus annuus)
AU   Dehmer, K. J.; Friedt, W.
CS   Inst. Crop Sci. Plant Breeding, Justus-Liebig-Univ., Giessen, D-35390,
        Germany
SO   Plant Breeding (1998), 117(1), 45-48
        CODEN: PLABED; ISSN: 0179-9541
PB   Blackwell Wissenschafts-Verlag GmbH
DT   Journal
LA   English

AB   A total of 16 different simple sequence repeat motifs and an M13 repeat
        sequence were used as hybridization probes in order to examine the mol.
        relationships between two German inbred and eight North American sunflower
        lines of known pedigree, and to det. the suitability of the individual
        short tandem repeats for genetic analyses and their occurrence in the
        sunflower genome. Only the oligonucleotides (ACA)6, (CAT)6, (CATA)5,
        (GACA)4, and (GATA)4 proved to be well suited for the generation of
        scorable fingerprinting patterns, while the other (microsatellite)
        sequences were either too abundant or too rare. Although different levels
        of polymorphism were present in hybridizations with the different simple
        sequence repeats (SSRs), a clear sepn. of the German material from the
        USDA lines was feasible not only by evaluating 20 probe-enzyme
        combinations, but also by combining every individual probe with four
        different restriction enzymes. In the American material, the expected
        relationships could be proved with the single exception of a line that did
        not group in accordance with its pedigree.
IT   **116095-30-8**
        RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST
        (Analytical study); BIOL (Biological study); USES (Uses)
            (microsatellite motifs for analyzing genetic relationships in
            cultivated sunflower)
RN   116095-30-8 CAPLUS
CN   Guanosine, thymidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-
        deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-thymidylyl-
        (5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-
        (5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-thymidylyl-(5'.fwdarw.3')-
        2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-
        deoxyguanylyl-(5'.fwdarw.3')-thymidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-
        (5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxy- (9CI)   (CA INDEX
        NAME)

SEQ   1 ggatggatgg atggat

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